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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/656,841	841 09/05/2003 David K. Platner		60,130-1721/03MRA0169	8384
26096	7590 08/10/2005	EXAM	EXAMINER	
CARLSON, 0 400 WEST MA	GASKEY & OLDS, P	TORRES, M	TORRES, MELANIE	
SUITE 350	AI DE ROAD	ART UNIT	PAPER NUMBER	
BIRMINGHAM, MI 48009			3683	
		DATE MAILED: 08/10/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		A	pplication No.	Applicant(s)				
Office Action Summary		1	0/656,841	PLATNER ET AL.	PLATNER ET AL.			
		E	kaminer	Art Unit				
			elanie Torres	3683				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠ Respo	nsive to communication(s) file	ed on <u>02 May 2</u>	<u>2005</u> .					
			ion is non-final.					
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of C	Claims							
4a) Of t 5)⊠ Claim(s 6)⊠ Claim(s 7)⊠ Claim(s	 Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 15 is/are allowed. Claim(s) 1-8,10,11,13 and 16-22 is/are rejected. Claim(s) 9,12 and 14 is/are objected to. 							
Application Pap	ers							
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 3	5 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)			_					
2) 🔲 Notice of Draft	rences Cited (PTO-892) sperson's Patent Drawing Review (F sclosure Statement(s) (PTO-1449 or ail Date		4) Interview Summar Paper No(s)/Mail [6] Notice of Informal 6) Other:	Date	D-152)			

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DETAILED ACTION

Double Patenting

1. Claims 1-3 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 1, 3 and 4 of copending Application No. 10/656,872. This is a <u>provisional</u> double patenting rejection since the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 13, 16 and 19-22 are rejected under 35 U.S.C. 102(b) as being anticipated by McGibbon et al.

Re claims 13, 16 and 19-22, McGibbon et al. discloses a method of making a composite leaf spring (10): to a rear attachment system mounted to a vehicle mainframe comprising the steps of; (1) forming a rearward leaf spring segment as an end of a composite leaf spring; (2) attaching a shear damper (24) between the rearward leaf spring segment and the vehicle mainframe such that the rearward leaf spring segment is longitudinally movable parallel to the vehicle mainframe as the shear damper moves in shear.

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Duchemin in view of McGibbon et al.

Re claims 1-6, Duchemin discloses a leaf spring (1) comprising: a forward leaf spring segment (right side) comprising an arcuate member (4) extending therefrom; a rearward leaf spring segment (left side) of a lesser depth and a greater width than said forward leaf spring segment; and a mounting segment (2) intermediate said forward leaf spring segment and said rearward leaf spring segment. As can be seen in figures, at least a portion of the forward leaf spring segment is of greater depth and lesser width than the rearward portion. (Figures 1-7) However, Duchemin does not teach wherein the leaf spring is a composite. McGibbon et al. teaches a composite leaf spring. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have used a composite material in the spring of Duchemin since it is well known in the art that composites are lightweight.

5. Claims 7, 8, 10, 11, 13 and 16-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Duchemin in view of McGibbon et al. and further in view of Davis et al. (US 4,623,133).

Re claims 7, 8, 10, 11, 13 and 16-22, Duchemin teaches a suspension comprising a leaf spring (1) comprising a forward leaf spring segment (right side) defining an arcuate segment (4), a rearward leaf spring segment (left side) and a mounting segment (2) intermediate said forward leaf spring segment and said rearward leaf spring segment. (Figures 1-7) However, Duchemin does not teach wherein the leaf spring is a solid composite. Davis et al. teaches a solid leaf spring. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have made a leaf spring solid in order to increase it's strength. McGibbon et al. teaches a composite leaf spring. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have used a composite material in the spring of Duchemin since it is well known in the art that composites are used for their strength. Further, Duchemin does not teach a rear attachment system comprising a shear damper mounted to the rearward spring segment. McGibbon et al. teach a rear attachment system comprising a shear damper (24) mounted to the rearward spring segment. It would have been obvious to one of ordinary skill in the art to have used the shear damper of McGibbon et al. in the system of Duchemin since it is well known that shear dampers are used in suspension systems to reduce the shear stresses on leaf spring suspensions.

Re claim 22, it would have been an obvious matter of design choice to have made the shear damper of a rectilinear shape since applicant has not disclosed that

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such a shape solves any stated problem or is for any particular purpose and it appears that dampers of a variety of shapes would work equally well.

Allowable Subject Matter

- 6. Claim 15 is allowed.
- 7. Claims 9, 12, 14 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

8. Applicant's arguments filed May 2, 2005 have been fully considered but they are not persuasive.

Re claim 13, Applicant argues that the rearward leaf spring segment is longitudinally movable parallel to the vehicle mainframe. This language is deemed to be extremely broad. There is no claim language stating what portion of the vehicle mainframe the leaf spring segment must move in parallel to. Applicant's arguments with respect to this limitation are more specific than the claim language.

Re claims 1-6 the arguments with respect to the obviousness rejections above addressed in the Office Action mailed February 16, 2005.

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Re claim 21, the examiner has broadly interpreted the damper as being mounted to an upper surface of the rearward leaf spring segment since no direct connection or contact is claimed.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie Torres whose telephone number is (571)272-7127. The examiner can normally be reached on Monday-Friday, 6:30 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor can be reached on (571)272-7095. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MT August 8, 2005

Melaxie Sonis 8-8-05